

Appl. No. 10/519,390  
Amdt. dated May 28, 2007  
Reply to Office Action mailed November 28, 2006

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1-37 (cancelled)

38. (Currently amended) A protein variant which substitutes a valine residue for a phenylalanine residue in a ~~protein having a biological response-modifying function by binding domain of a cytokine to a receptor.~~

39. (Cancelled)

40. (Currently amended) The protein variant according to claim ~~38~~ 39, wherein the cytokine is a 4-alpha helix bundle cytokine.

41. (Previously presented) The protein variant according to claim 40, wherein the 4-alpha helix bundle cytokine is selected from the group consisting of CNTF, EPO, F1t3L, G-CSF, GM-CSF, GH, IL-2, IL-3, IL-4, 1L-5, IL-6, IL-12p35, LPT, LIF, M-CSF, OSM, PL, SCF, TPO, IFN- $\alpha$ 2A, IFN- $\alpha$ 2B, IFN- $\beta$ , IFN- $\gamma$ , IPN- $\omega$  and IFN- $\tau$ .

42. (Previously presented) The protein variant according to claim 41, wherein the CNTF, EPO, F1t3L, G-CSF, GM-CSF, GH, IL-2, IL-3, IL4,. 1L-5, M-6, IL-12p35, LPT, L1F, M-CSF, OSM, PL, SCF and TPO are altered by substituting valine for phenylalanine residue of amino acid residues between positions 110 and 180.

43-61 (Cancelled)

62. (Currently amended) The protein variant according to claim 41, wherein the 4-alpha helix bundle cytokine is TPO that is altered by substituting a valine residue for a phenylalanine residue at a position 46, 128, 131, 141, 186, 204, 240 or 286 of ~~an amino acid sequence designated as SEQ ID NO.: 25.~~

63-74 (Cancelled)

75. (New) A pharmaceutical composition comprising the protein variant according to any one of Claims 38, 40, 41, 42 and 62 and a pharmaceutically acceptable carrier.